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Fujitsu's ADSL USB Modem

User Manual

In Commercial Confidence



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Issue History

Issue History

Issue No.	Issue Date	History	
Issue 01	Jan 2002	First Isssue of ADSL USB modem User Manual.	
Issue 02	March 2002	Second Issue of ADSL USB modem User Manual. Inclusion of Safety notice in Preface	



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Preface

Preface

This manual contains information about the installation, operation and configuration of the ADSL USB Modem.

TELECOMMUNICATIONS EQUIPMENT - IMPORTANT SAFETY INSTRUCTIONS



WHEN USING YOUR TELEPHONE EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSONS, INCLUDING THE FOLLOWING:

1. DO NOT USE THIS PRODUCT NEAR WATER, FOR EXAMPLE, NEAR A BATH TUB, WASH BOWL, KITCHEN SINK OR LAUNDRY TUB, IN A WET BASEMENT OR NEAR A SWIMMING POOL.

2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

3. DO NOT USE A TELEPHONE TO REPORT A GAS LEAK IN THE VICINITY OF THE LEAK.

Who Should Read this Manual

This manual is for users of the ADSL USB Modem.

What this Manual Covers

This manual contains the following information:

Chapter 1 "*Introduction*"—This chapter describes, what ADSL is, tells you about Protocols and Device Drivers and the main features of the ADSL USB Modem.

Chapter 2 "Installation and Software Setup for PCs Running Windows" — This chapter tells you the requirements for your PC, what information you need to gather before you start the installation and how to install the modem and software.

Chapter 3 "Installation and Software Setup for an Apple Macintosh Computer"—This chapter tells you the requirements for your Macintosh, what information you need to gather before you start the installation and how to install the modem and software.

Chapter 4 "*Managing the Software*"—This chapter describes updating software, removing software and customising settings.

Appendix A "*Product Specifications*"—This appendix lists technical specification of the ADSL USB Modem

"Glossary"—This is a glossary of terms for this manual.

Conventions Used in this Manual

The conventions used for the procedures in this manual are described below.

Commands

Commands are always referred to by using the word "click" before them. These commands are always shown as bold-faced words. For example, click **Next**, click **OK**, or click **Cancel**.

Names of Windows (Dialog Boxes)

The names of the windows (also referred to as dialog boxes) that appear on the PC screen are always referred to in quotes. For example, the **"Setup Complete"** window.

Names of Options in Windows

The names of options to choose from inside the windows that appear on the PC screen are always referred to in italics. For example, choose the *Yes, I want to restart my computer now* option from the window.

Notes

In some cases, preparatory or cautionary information is needed before proceeding onto the next step in an installation process. This kind of information is provided in the form of notes, for example

Note: To access the Control Panel, the driver must be running. Also, make sure the USB cable is plugged into the modem.



CHAPTER 1 Introduction

This chapter provides a brief overview of the ADSL USB modem. Specifically this chapter describes:

- What is ADSL
- Protocol and device drivers
- features summary

What is ADSL?

Asymmetric Digital Subscriber Line (ADSL) technology provides high-speed data access across a telephone line (copper-twisted pair) by making use of previously unused frequency bandwidth above the voice frequency band. By placing the ADSL signal above the frequency of the voice signal, ADSL service is able to coexist on the same line with your telephone service. ADSL is asymmetric because it provides a higher data rate in the downstream (internet provider to your computer) direction than in the upstream (computer to internet) direction. Asymmetric operation is ideal for home and small office use where files and information are downloaded to the computer more frequently than uploaded.

Protocol and Device Driver Selection

The ADSL USB (Universal Serial Bus) Modem can be easily connected to a USB port on a computer via a standard USB cable. The ADSL USB Modem is fully software upgradeable so that new features and updates may be added by simply loading a new version of the device driver onto your Personal Computer (PC).



ADSL modems employ ATM (Asynchronous Transfer Mode) framing. ATM is a protocol that divides packets into small fixed sized cells for rapid transmission over high-speed networks. The ATM protocol allows various types of traffic (e.g. data, voice, and video) to be securely and efficiently carried over the same network. ATM is being widely deployed by telecommunications carriers in their backbone networks. Two type of ATM connections are possible, PVC (Permanent Virtual Circuit) and SVC (Switched Virtual Circuit).

Several different protocols are used on top of ATM. The protocol required in your configuration depends on the equipment deployed by your DSL service provider. There are several possibilities:

- Point to Point Protocol (PPP) Over ATM (RFC 2364) PPP provides session setup, user authentication (login), and encapsulation for upper layer protocols such as IP (Internet Protocol). The use of PPP makes the modem appear as a dial-up modem to the operating system. Dial-Up Networking is used to establish a connection. PPP is supported by either the WAN (Wide Area Network) driver or the ATM driver.
- Bridged/Routed Ethernet/IP over ATM (RFC 1483) This protocol makes the modem appear as a local area network (LAN) device to the operating system.
- RFC 1577 this is another local area network like protocol for IP address and ATM address mapping.
- PPP Over Ethernet (RFC 2516) This protocol makes the modem appear as a LAN device to the operating system. It allows multiple computer users on an Ethernet to share a common DSL connection to the Internet.

Three types of device drivers are provided for the ADSL USB modem, WAN, LAN, and ATM. All three drivers support ATM protocol. In addition, the ATM driver works with ATM services that are available in recent Windows operating systems. The proper choice of driver depends on the combination of Windows¹ operating system and protocol.

- WAN this driver causes the modem to resemble a dial-up modem. Call establishment is performed through Dial-Up Networking. This driver supports RFC 2364 with PVC connections. It can be used with Windows 98, Windows 98 SE, Windows 2000, Windows ME and Windows XP.
- LAN (RFC 1483) this driver makes the modem appear as a LAN or Ethernet device. Connection establishment is automatic. This driver supports RFC 1483 with PVC connections. Additionally, PPPoE is supported. It can be used with Windows 98, Windows 98 SE, Windows 2000, Windows ME and Windows XP.
- ATM this driver works in conjunction with ATM services provided by Windows. Both RFC 1577 and RFC 2364 are supported. The ATM driver uses Dial-Up Networking to create a PVC or SVC connection to establish a PPP (RFC 2364) connection. This driver can be used with Windows 98 SE, Windows 2000, Windows ME and Windows XP.

The device driver choices are summarized in Table 1-1:

^{1.} Microsoft, Windows, Windows 98, Windows 98 SE, Windows 2000, Windows ME and Windows XP are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Introduction

	Table 1-1:	
Driver Type	Protocol	Window OS
LAN	RFC 1483	Windows ME, 2000, 98, 98 SE and XP.
WAN	RFC 2364 PPPoE	Windows ME, 2000, 98, 98 SE and XP.
ATM	RFC 1577 RFC 2364	Windows ME 2000, 98, 98 SE. and XP

Features Summary

The ADSL USB Modem provides the following features:

- Compliant with USB (Universal Serial Bus) Specification Revision 1.1.
- USB powered; an external power supply is not required.
- Supports three device drivers: Microsoft NDIS 4.0 WAN Miniport, NDIS 4.0 LAN Miniport or NDIS 5.0 ATM Miniport.
- Compatible with all T1.413, G.DMT, and G.lite compliant central office (CO) DSLAM equipment as well as the vast majority of deployed CAP RADSL equipment.
- Software upgradeable.
- ATM driver supports up to sixteen simultaneous ATM virtual connections.
- Includes a Microsoft Windows control panel monitoring program for configuring the adapter and checking the status of the connection.
- Provides an RJ-11 connector for connection to the telephone line.
- Supports DSL downstream data rates up to 8 Mbps (125 times faster than standard 56k modems).
- Supports DSL upstream data rates up to 1024 kbps.
- Supports third party PPPoE clients.

For full details of the technical capabilities of the modem see "*Product Specifications*" on page A-1.



Introduction

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CHAPTER 2 Installation and Software Setup for PCs Running Windows

This chapter describes:

- The requirements for your Personal Computer which are described in *"System Requirements"* on page 2-3.
- The information you need to gather before you start the installation, see "Information Required Before You Start" on page 2-4.
- How to install the modem (see "*Modem Hardware Installation*" on page 2-5) and setup the software for the ADSL USB Modem for the following operating systems on a PC:
 - "Modem Software Setup for Windows 98" on page 2-7
 - "Modem Software Setup for Windows 2000" on page 2-10
 - "Modem Software Setup for Windows ME" on page 2-14
 - "Modem Software Setup for Windows XP" on page 2-17
- The action to take if you have plugged in the modem before installing the software, see "What to do if the Modem is Plugged in First" on page 2-25.

Note: If you have an Apple Macintosh Computer please read Chapter 3 "*Installation and Software Setup for an Apple Macintosh Computer*".



List of Procedures

The actions you need to take are described in the procedures listed in Table 2-1.

Procedure number	Title	Page
2-1	Modem Hardware Installation	2-5
2-2	Software Setup for Windows 98	2-7
2-3	Software Setup for Windows 2000	2-10
2-4	Software Setup for Windows ME	2-14
2-5	Software Setup for Windows XP	2-17
2-6	Software Setup for Windows 98 - Modem Plugged In	2-26
2-7	Software Setup for Windows 2000 - Modem Plugged In	2-29
2-8	Software Setup for Windows ME - Modem Plugged In	2-32
2-9	Software Setup for Windows XP - Modem Plugged In	2-35

Table 2-1:

Connecting the Modem

The software set must be started with the Modem disconnected from the computer. The procedure (Procedure 2-2, Procedure 2-3, Procedure 2-4 or Procedure 2-5 depending on Windows version) tells you when to connect the modem. Fujitsu recommends that you use these procedures because they are shorter and easier to perform.

The setup can still be performed if the modem has already connected but you must follow a different set of procedures (Procedure 2-6, Procedure 2-7, Procedure 2-8 or Procedure 2-9 depending on Windows version) followed by (Procedure 2-2, Procedure 2-3, Procedure 2-4 or Procedure 2-5). This method is longer and harder to perform and is not recommended by Fujitsu.

System Requirements

The following specifications are the minimum required for optimum performance of this ADSL modem:

- PC with Pentium, Celeron, Xeon or compatible processor
- USB V1.0 or V1.1-compliant bus
- At least 32 MB RAM
- 10 MB of free hard drive space
- TCP/IP protocol stack installed
- Microsoft Windows 98/98SE, Windows Millennium (ME), Windows 2000, Windows XP CD-ROM, or the appropriate CAB files.
- A web browser such as Internet Explorer 4.x (or later) or Netscape Navigator 4.x (or later) installed



Information Required Before You Start

The following information may be required for software installation. Contact your DSL service provider before proceeding with software installation.

ltem		Description	Notes
IP Address Setting	IP Address	The software installation	
	Subnet mask	process allows the server to dynamically assign IP	For Bridged Ethernet applications only
	Default Gateway	application requires static setting of specific address information you will need to know	For Bridged Ethernet applications only
Domain Name Server Information	Primary DNS Address	The software installation	—
	Secondary DNS Address	process allows the server to dynamically assign Domain Name Server Address settings. If your application requires static setting of specific address information you will need to know	
Type of Driver to be Installed	_	WAN, LAN and ATM software drivers are supported	Required if not using default value
ATM Virtual Path ID (VPI)		Required if not us	sing default value
ATM Virtual Circuit ID (VCI)			
Encapsulation Type			
Modulation Type			
User Name		For PPP appl	ications only
Password			

Table 2-2:

Modem Hardware Installation

Follow procedure Procedure 2-1 and Figure 2-1 to install your modem, set up the cables, computer, telephone and Splitter.





Figure 2-1: Connecting the Modem

Install the ADSL USB Modem by following Procedure 2-1 with the PC running:

	Procedure 2-1: Modem Hardware Installation
1.	Locate the master telephone wall outlet and unplug any telephone cable that is connected to the outlet.
2.	Plug the Splitter into the wall outlet.
3.	Plug in the cable from the Splitter to Modem (the ADSL jack).
4.	Put the square end of the USB cable near the USB port of the ADSL USB Modem to check that it will reach. Do not plug it in yet, further instructions will tell you when to plug it in.
5.	Insert the rectangular end of a USB cable into the USB port of your computer.
6.	Connect the telephone wiring to the Splitter.



Installation and Software Setup for PCs Running Windows

Procedure 2-1: Modem Hardware Installation (Continued)

7. Follow the appropriate procedure to set up the modem software:

- Procedure 2-2 for **Windows 98**
- Procedure 2-3 for Windows 2000
- Procedure 2-4 for **Windows ME**
- Procedure 2-5 for Windows XP



Modem Software Setup for Windows 98

Follow Procedure 2-2 to set up the software for Windows 98 and Windows 98 Second Edition.

Note: You must not connect the modem to the computer until the procedure tells you. Follow Procedure 2-6 on page 2-26 if the modem has been connected to the computer

	Procedure 2-2: Software Setup for Windows 98
1.	Start your computer and allow Windows to start-up.
2.	Insert the Installation CD into your CD-ROM drive.
	 If the CD self starts go to Step 3. If the CD doesn't automatically start, go to Windows Explorer -> CD-ROM Drive -> SETUP.EXE to run the setup program.
3.	A "Welcome" message appears. Click Next.
	Where the second set of the ADE, USB Modern Being program. The program will some the ADE, USB Modern in your Image: Second set of the ADE, USB Modern Being program. The program will some the ADE, USB Modern in your Image: Second set of the ADE, USB Modern Being program. The program will some the ADE, USB Modern in your Image: Second set of the ADE, USB Modern Being program. The program will be the program will be the program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program. Image: Second set of the ADE, USB Modern Being program.

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	Procedure 2-2: Software Setup for Windows 98 (Continued)
4.	The "Setup Complete" window indicates that files have been copied. Click Finish to complete the installation.
	Setup Complete
	Image: Sector
	Instal Shield
	A District Linear
5.	The installation program now searches for the USB modem. The "ADSL Installer" window prompts you to plug in the USB modem.
	AD5L Installer
	The ADSL Installer is searching for installed hardware. This may take a few minutes.
	If your modern is not yet plugged into your computer, please plug it in now.
	If the modem is not plugged into the PC, plug it in now.
	Note: You may need the Windows CD to complete the installation







Modem Software Setup for Windows 2000

Follow Procedure 2-3 to set up the software for Windows 2000.

Note: You must not connect the modem to the computer until the procedure tells you. Follow Procedure 2-7 on page 2-29 if the modem has been connected to the computer.

	Procedure 2-3: Software Setup for Windows 2000
1.	Start your computer and allow Windows to start-up.
2.	Insert the Installation CD into your CD-ROM drive.
	 If the CD self starts go to Step 3. If the CD doesn't automatically start, go to Windows Explorer -> CD-ROM Driver -> SETUP.EXE to run the setup program.
3.	A "Welcome" message appears. Click Next.
	<image/> <image/> <image/> <image/> <image/> <text><text><text><text><text><text></text></text></text></text></text></text>

4.	Procedure 2-3: Software Setup for Windows 2000 (Contine The "Digital Signature Not Found" window may appear warning that software is not a digitally signed version. A digital signature is not necessary ADSL USB Modem software has been tested with Windows 2000. Click the installation to continue.	the installation ssary; the k Yes to allow
	Digital Signature Not Found Image: Control of the Signature and the software has not control of the software works connectly with the software has not control of the software works connectly with the software has not contain a forsont digital signature. Therefore, there is no guarantee that his software works connectly with the software works connectly works works works connectly works w	Yes to

continue.



	Procedure 2-3: Software Setup for Windows 2000 (Continued)	
5.	The "Setup Complete" window indicates that files have been copied. Click Finish to complete the installation.	
	Setup Complete	
	The ADSL Installer has finished copying files to your computer. In a few moments, the DSL Installer will alterngt to detect your Advace and complete the installation process.	
	Instal/Shield	
	< gask Finish	
6.	The installation program now searches for the USB modem. The "ADSL Installer" window prompts you to plug in the USB modem.	
	The ADSL Installer is searching for installed hardware. This may take a few minutes.	
	If your modern is not yet plugged into your computer, please plug it in now.	
	If the modem is not plugged into the PC, plug it in now.	

Procedure 2-3: Software Setup for Windows 2000 (Continued)	
7.	The " Digital Signature Not Found " window may appear again warning that the installation software is not a digitally signed version. A digital signature is not necessary; the ADSL USB Modem software has been tested with Windows 2000. Click Yes to allow the installation to continue.
	Orgital Signature Not Found X
	Note: If another "Digital Signature Not Found" window appears click Yes to
8.	continue. You have successfully installed the modem software!



Modem Software Setup for Windows ME

Follow Procedure 2-4 to set up the software for Windows ME.

Note: You must not connect the modem to the computer until the procedure tells you. Follow Procedure 2-8 on page 2-32 if the modem has been connected to the computer.

Procedure 2-4: Software Setup for Windows ME		
1. 2. 3.	 Start your computer and allow Windows to start-up. Insert the Installation CD into your CD-ROM drive. If the CD self starts go to Step 3. If the CD doesn't automatically start, go to Windows Explorer -> CD-ROM Drive -> SETUP.EXE to run the setup program. A "Welcome" message appears. Click Next. 	
	<image/> <image/> <image/> <image/> <text><text><text><text><text><text><text></text></text></text></text></text></text></text>	×



4.	Procedure 2-4: Software Setup for Windows ME (Continued) The "Setup Complete" window indicates that files have been copied. Click Finish complete the installation.
	First/Shield
5.	The installation program now searches for the USB modem. The "ADSL Installer
	AD51. Installer
	The ADSL Installer is searching for installed hardware. This may take a few minutes. If your modern is not yet plugged into your computer, please plug it in now.
6.	If the modem is not plugged into the PC, plug it in now.



Installation and Software Setup for PCs Running Windows





Modem Software Setup for Windows XP

Follow Procedure 2-5 to set up the software for Windows XP.

Note: You must not connect the modem to the computer until the procedure tells you. Follow Procedure 2-9 on page 2-35 if the modem has been connected to the computer.

	Procedure 2-5: Software Setup for Windows XP
1.	Start your computer and allow Windows to start-up.
2.	Insert the Installation CD into your CD-ROM drive.
	 If the CD self starts go to Step 3. If the CD doesn't automatically start, go to Windows Explorer -> CD-ROM Drive -> SETUP.EXE to run the setup program.
3.	A "Welcome" message appears. Click Next.
	We have: Image: Control of the cont



	Procedure 2-5: Software Setup for Windows XP
4.	A window may appear warning that the installation software has not passed Windows Logo testing. It is not necessary; the FDX310 ADSL USB Modem software has been tested with Windows XP. Click Continue Anyway to allow the installation to continue.
	Software Installation Image: Software Installation Image: Software Installation Image: Software Installation Installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
5.	Continue Anyway STOP Instalation The "Setup Complete" window indicates that files have been copied. Click Finish to complete the installation.
	<image/>
	InstallShield < Back Finish



	Procedure 2-5: Software Setup for Windows XP
6.	The installation program now searches the for USB modem. The "ADSL Installer" window prompts you to plug in the USB modem.
	DSL Installer
	The DSL Installer is searching for installed hardware. This may take several moments.
	If your modern is not yet plugged in to your computer, please plug it in now.
	If the modem is not plugged into the PC, plug it in now.
	Choose Install the software automatically and Click Next to allow the installation to continue.
	This wizard helps you install software for:
	FUJITSU USB ADSL Loader
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	 Install the software automatically (Recommended) Install from a list or specific location (Advanced)
	Click Next to continue.
	< Back Next > Cancel



,	Procedure 2-5: Software Setup for Windows XP The "Found New Hardware Wizard" window may appear warning that the installation software has not passed Windows Logo testing. It is not passes with
	FDX310 ADSL USB Modem software has been tested with Windows XP. Click Continue Anyway to allow the installation to continue.
	Found New Hardware Wizard
	Please wait while the wizard installs the software
	FUJITSU USB ADSL Loader
	501 × 386
	🗁 🔶 📂
	< Back Next > Cancel
	Hardware Installation
	The software you are installing for this hardware:
	FUJITSU USB ADSL Loader
	has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	<u>C</u> ontinue Anyway



	Procedure 2-5: Software Setup for Windows XP
9.	A message confirms that the device driver software has been installed; click Finish .
	Found New Hardware Wizard
	Completing the Found New Hardware Wizard
	The wizard has finished installing the software for:
	FUJITSU USB ADSL Loader
	Click Finish to close the wizard.
	< Back. Finish Cancel




1.	The "Found New Hardware Wizard" window may appear warning that the installation software has not passed Windows Logo testing. It is not necessary; Th FDX310 ADSL USB Modem software has been tested with Windows XP. Click Continue Anyway to allow the installation to continue.
	Found New Hardware Wizard
	Please wait while the wizard installs the software
	FUJITSU USB ADSL WAN Modem
	۵ ک
	Z Back Nexts Cancel
	K Didok, Mexil 2 Landel
	Hardware Installation Image: A software you are installing for this hardware: FUJITSU USB ADSL WAN Modem has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of unur system
	either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.



Installation and Software Setup for PCs Running Windows



What to do if the Modem is Plugged in First

The installation of the software should be started without the modem connected to the computer. However, if you have connected the Modem and attempt to install the software the installation still works but you see different dialogue boxes because the computer detects the modem. The new dialogues are additional and come before the dialogues shown in the installation procedures (Procedure 2-2, Procedure 2-3, Procedure 2-4 and Procedure 2-5).

Operating System	Complete this procedure first	then complete this procedure
Windows 98	Procedure 2-6	Procedure 2-2
Windows 200	Procedure 2-7	Procedure 2-3
Windows ME	Procedure 2-8	Procedure 2-4
Windows XP	Procedure 2-9	Procedure 2-5



Modem Software Setup for Windows 98 with the Modem Plugged In

Follow Procedure 2-6 to set up the software for Windows 98 and 98 Second Edition if the modem is plugged in first.

Pr	ocedure 2-6: Softwa	re Setup for Windows 98 - Modem l	Plugged In
1.	After USB modem is pl is displayed indicating	lugged into the PC, an "Add New Hardware that new drivers are required, click Next .	Wizard" window
	Add New Hardware Witz	and This wizard searches for new drivers for: USB Device A device driver is a software program that makes a hardware device work.	
		<back cancel<="" th=""><th></th></back>	

Pr	rocedure 2-6: Software Setup for Windows 98 - Modem Plugged In			
2.	2. A window is displayed which allows you to specify the location of the driver software to be installed. Choose the <i>Search for the best driver for your device</i> . (<i>Recommended</i>) option by clicking the check box; click Next .			
	Add New Hardware Wizard			
	What do you want Windows to do? Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the best driver for your device. Image: Search for the driver for y			
	<back next=""> Cancel</back>			
3.	You are required to specify a location for the new driver software. Click the <i>CD-ROM drive</i> check box. Insert the ADSL USB Modem Installation CD into the CD drive and click Next .			
	Add New Hardware Wizard			
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations: Click Next to start the search. Copyy disk drives C D ROM drive Microsoft Windows Update Specify a Jocation: C Display-Driver			
	< Back Next > Cancel			



Pr	ocedure 2-6: Software Setup for Windows 98 - Modem Plugged In
4.	A message indicates that the system finds the installation file and is ready to install the device driver; click Next .
	Add New Hardware Wizard Windows driver file search for the device: ADSL USB Modern Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue. Location of driver: Image: Device Click Back to select a different driver, or click Next to continue. Location of driver: Image: Device Click Back to select a different driver, or click Next to continue. Location of driver: Image: Device Click Back to select a different driver, or click Next to continue. Location of driver: Image: Device Click Back to select a different driver, or click Next to continue. Location of driver: Image: Device Click Back to select a different driver, or click Next to continue. Location of driver: Image: Device Click Back to select a different driver, or click Next to continue. Image: Device Click Back to select a different driver, or click Next to continue. Image: Device Click Back to select a different driver, or click Next to continue. Image: Device Click Back to select a different driver, or click Next to continue. Image: Device Click Back to select a different driver, or click Next to continue. Image: Device Click Back to select a different driver, or click Next to continue. Image: Device Click Back to select a different driver, or click
5.	A message confirms that the device driver software has been installed; click Finish .
6.	The PC automatically runs the SETUP.EXE in the root directory of the installation CD. If the installation doesn't automatically start, go to Windows Explorer -> CD-ROM Drive -> SETUP.EXE to run the setup program. A "Welcome" message is displayed;
7.	Go to Procedure 2-2 Step 7, on page 2-7.

Modem Software Setup for Windows 2000 with the Modem Plugged In

Follow Procedure 2-7 to set up the software for Windows 2000 if the modem is plugged in first.





	Procedure 2-7: Software Setup for Windows 2000 - Modem Plugged In (Continued)				
2. A tr	A window is displayed which allows you to specify the location of the driver software o be installed. Choose the <i>Search for a suitable driver for my device (recommended)</i> option by clicking the check box; click Next .				
	Found New Hardware Wizard				
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.					
	This vicand will complete the installation for this device:				
	A device driver is a software program that makes a hardware device work. Windows needs driver tiles for your new device. To locate driver files and complete the installation click Neet.				
	What do you want the wizard to do?				
	(* Search for a suitable driver for my device (recommended)				
	 Display a fait of the known drivers for this device so that I can choose a specific driver 				
	< Back Next> Cancel				
3. You are required to specify a location for the new driver software. Click the <i>CD-ROM drives</i> check box. Insert the ADSL USB Modem Installation CD into the CD drive an click Next .					
	Found New Hardware Witzerd				
	Locate Driver Files Where do you want Windows to search for driver files?				
	Search for driver files for the following hardware device:				
2 USB Device					
The wiserd searches for suitable drives in its driver database on your computer and in any of the following optional search locations that you opecity. To start the search, dick Next, If you are searching on a toppy disk or CD-RDM drive, insert the formulation of D halows of Chine Next.					
Optional rearch locations:					
Flappy girk drives					
	Specity a location Microsoft Windows Update				
	< <u>B</u> ack Next> Cancel				

	Procedure 2-7: Software Setup for Windows 2000 - Modem Plugged In (Continued)						
4.	A message indicates that the system finds the installation file and is ready to install the device driver; click Next .						
	Found New Hardware Wizard						
	Driver Files Search Results The vicard has finished searching for driver files for your hardware device.						
	The wizard found a driver for the following device:						
	USB Device						
	Windows found a driver for this device. To install the driver Windows found, click Next.						
	🖄 r:\gootusb.int						
	The wizard also found other drivers that are suitable for this device. To view a list of these drivers or install one of these drivers, select the following check box, and then click. Next.						
	< Back Device Cancel						
5	A message confirms that the device driver software has been installed; click Finish						
	Fread New Harbware Witzerd Fread New Harbware Witzerd Completing the Found New Hardware Witzerd ADSL USB Moders ADSL USB Moders The software for this device is more installed, but may not not. concilue The device is not configured conscily. (Code 1) To does the wized, dok Freeh.						
6.	The PC automatically runs the SETUP.EXE in the root directory of the installation CD. If the installation doesn't automatically start, go to Windows Explorer -> CD-ROM Drive -> SETUP.EXE to run the setup program. A "Welcome" message is displayed; click Next .						
7.	Go to Procedure 2-3 Step 3, on page 2-10.						



Software Setup for Windows ME with the Modem Plugged In

Follow Procedure 2-8 to set up the software for Windows ME if the modem is plugged in first.

Procedure 2-8: Software Setup for Windows ME - Modem Plugged In
1. After USB modem is plugged into the PC, an "Add New Hardware Wizard" window is displayed indicating that new drivers are required. Choose the Automatic search for a better driver (Recommended) option by clicking the check box and insert the ADSL USB Modem Installation CD into the CD drive; click Next.
ISB Modem Installation CD into the CD drive; click Next.
ISB Device
Windows has found the following new hardware.
USB Device
Windows can automatically search for and install software that aupoints you hadware, if you hadware can with an automatic search for a better driver (Recommended) option by click Next.
Windows can automatically search for and install software that aupoints you hadware, if you hadware can with an automatic search for a better driver (Recommended)
What would you like to do?
Specify the location of the driver (Advanced)

Next 3

Cancel

Pro	ocedure 2-8: So	ftware Setup for W	Vindows ME -	Modem Plugged I
2.	The "Select Oth drivers. If asked column, and clic	her Driver'' window ma , highlight the root direc k OK .	y ask you to select tory GROOTUSB	the driver from a list o .INF in the "Location"
	Select Other Driver			×
	Windows has found more matches your language a	than one driver that may work for your hand ind device.	ware. Please intert the driver that	
	Driver Desception	Locaton	Driver Date	4
	ADSL USB Modern ADSL USB Modern Los ADSL USB Modern Los ADSL USB Modern Los	E VGROOTUSEINF E WSBVANNEX-"5/GAPALOAD INF E WSBVANNEX-"7/GAPALOAD INF E WSBVANNEX-"9/GAPALOAD INF	5 4,000 9 1,2000 8 1,2000 8 1,2000	
	-	94. 		1
	[<u>+</u>]		OK Dancel	L

3. A message confirms that the device driver software has been installed; click **Finish**.



Installation and Software Setup for PCs Running Windows

Procedure 2-8: Software Setup for Windows ME - Modem Plugged In

- The PC automatically runs the SETUP.EXE in the root directory of installation CD. If the installation doesn't automatically start, go to Windows Explorer -> CD-ROM Drive -> SETUP.EXE to run the setup program. A "Welcome" message is displayed; click Next.
- **5.** Go to Procedure 2-4 Step 3, on page 2-14.



Software Setup for Windows XP with the Modem Plugged In

Follow Procedure 2-9 to set up the software for Windows XP if the modem is plugged in first.





Pro	occdure 2-9: Software Setup for Windows XP - Modem Plugged In					
2. You need to specify a location for the new driver software. Select the <i>Search Removable media</i> check box. Insert the FDX310 ADSL USB Modem Instal into the CD drive and click Next .						
	Found New Hardware Wigard					
Please choose your search and installation options.						
	 Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: ChDocuments and Settings/Vabpc1/Desktop/7006 u.w. Browse: Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee that 					
3.	A message confirms that the device driver software has been installed; click Finish					
	Completing the Found New Hardware Wizard					
	The wizard has finished installing the software for:					
	FUJITSU USB ADSL WAN Modem					
	Click Finish to close the wizard.					
	< Back Finish Cancel					



CHAPTER 3 Installation and Software Setup for an Apple Macintosh Computer

This Chapter describes:

- The requirements for your Apple Macintosh¹ described in "*System Requirements*" on page 3-2.
- The information you need to gather before you start which are described in "*Information Required Before You Start*" on page 3-3.
- How to install the modem (see "*Modem Hardware Installation*" on page 3-4) and setup the software for the ADSL USB Modem:
 - "Software Setup for Macintosh OS9.1" on page 3-5.
 - "Creating a Dial-up Connection" on page 3-9.
 - "Connecting to a Remote Network" on page 3-11.
 - *"Establishing a PPP Connection"* on page 3-13

Note: If you have a PC running Microsoft Windows please read Chapter 2, "*Installation and Software Setup for PCs Running Windows*"

^{1.} Apple and Macintosh are trademarks of Apple Computer, Inc., registered in the US and other countries.



List of Procedures

The actions you need to take are described in the procedures listed in Table 3-1.

Procedure number	Title	Page
3-1	Modem Hardware Installation	3-4
3-2	Software Setup for Macintosh	3-5
3-3	Creating a Dial-up Connection	3-9
3-4	Connecting to a Remote Network	3-11
3-5	Establishing a PPP Connection	3-13

Table 3-1:

System Requirements

The following specifications are the minimum required for optimum performance of this ADSL modem:

- G3 or G4 Apple Macintosh computer
- USB V1.0 or V1.1-compliant bus
- At least 32 MB RAM
- 10 MB of free hard drive space
- TCP/IP protocol stack installed
- Macintosh operating system OS 8.6 or OS 9.x.
- Web browser such as Internet Explorer 4.x (or later) or Netscape Navigator 4.x (or later) installed Modem Hardware Installation



Information Required Before You Start

The following information may be required for software installation. Contact your DSL service provider before proceeding with software installation.

Item		Description	Notes
IP Address Setting	IP Address	The software installation process allows the server to dynamically assign IP Address settings. If your application requires static setting of specific address information you will need to know	
	Subnet mask		For Bridged Ethernet applications only
	Default Gateway		For Bridged Ethernet applications only
Domain Name Server Information	Primary DNS Address	The software installation	_
Type of Driver to be Installed	Secondary DNS Address	process allows the server to dynamically assign Domain Name Server Address settings. If your application requires static setting of specific address information you will need to know WAN, LAN and ATM	 Required if not using
		software drivers are supported	default value
ATM Virtual Path ID (VPI)		Required if not using default value	
ATM Virtual Circuit ID (VCI)			
Encapsulation Type			
Modulation Type			
User Name		For PPP appl	ications only
Password			

Table 3-2:



Modem Hardware Installation

Follow procedure Procedure 3-1 and Figure 3-1 to install your modem., set up the cables, computer, telephone and splitter.



Figure 3-1: Connecting the Modem

Install the ADSL USB Modem by following Table 3-1 with the PC running:

Procedure 3-1: Modem Hardware Installation 1. Locate a master telephone wall outlet. Unplug any telephone cable that is connected to the outlet 2. Plug the Splitter into the wall outlet. 3. Plug in the cable from the Splitter to Modem (the ADSL jack). 4. Put the square end of the USB cable near the USB port of the ADSL USB Modem to check that it will reach. Do not plug it in yet, further instructions will tell you when to plug it in. 5. Insert the rectangular end of a USB cable into the USB port of your computer. Note: The USB modem must be plugged into a USB port on the computer itself or a powered hub, not into the keyboard port. 6. Connect the telephone wiring to the Splitter. Follow Procedure 3-2 (0S9.x) to set up the modem software



Software Setup for Macintosh OS9.1

Follow Procedure 3-2 to set up the software for a Macintosh.

	Procedure 3-2: Software Setup for Macintosh
1.	Procedure 3-2: Software Setup for Macintosh Insert the Fujitsu USB Installation CD-ROM into the CD-ROM drive. Click the Fujitsu mac icon, and then click the Fujitsu ADSL Installer icon.
	FULITEUWINI Fuliteumac



	Procedure 3-2: Software Setup for Macintosh
2.	FUITSU
3.	The welcome screen appears. Click Continue
	Welcome
	Welcome to the Fujitsu FDX310 Installer. This program installs the ADSL modem driver files and Control Panel on your computer.
	This software requires Apple System Software 8.6 or newer, Apple USB software 1.3 ore newer, and Open Transport 1.1.1 or newer. The USB and network software is available from Apple Computer, and is included with the Macintosh System Software Installer.
	Click continue to select the destination disk.
	Go Back Continue



	Procedure 3-2: Software Setu	p for Macintosh
4.	Click Select on the destination selection windo	w (Macintosh HD should be selec
	Fujitsu ADSL Instal	ller Dat 📃 🗐
	Select Destination	?
	Choose a disk to install the software on, the	n click Select.
	Destination Disk: Macintosh HD	÷
	System software currently installed:	Z1-9.0.4
	Available disk space:	19835 MB
	Approximate disk space required for basic installation:	less than 1 MB
	This disk has enough space for a basic installation.	
		Go Back Soloct
		Go back Select
-		
5.	The following screen appears:	aller Dat
5.	The following screen appears:	aller Dat
5.	The following screen appears: Fujitsu ADSL Insta Install/Remove Software Installation Type: Recommended Install	aller Dat
5.	The following screen appears:	aller Dat
5.	The following screen appears:	aller Dat
5.	The following screen appears:	aller Dat
5.	The following screen appears:	aller Dat
5.	The following screen appears:	aller Dat
5.	The following screen appears:	aller Dat
5.	The following screen appears:	aller Dat
5.	The following screen appears:	aller Dat



Installation and Software Setup for an Apple Macintosh Computer





Creating a Dial-up Connection

Follow Procedure 3-3 to create your DSL dial-up connection on a Macintosh computer.

	Pro	ocedure 3-3: Creating a Dia	l-up Connection
	Note: The U	SB cable must NOT be connected	d to the computer.
1.	From your de scroll down a	esktop, click the Apple menu icon and open the Fujitsu ADSL Setup #	, select the Control Panels folder, folder.
		Fujitsu ADSL USB	Modem 📃
	DSL	Status V System Info	
		DSI Status	FUĴITSU
		Operational State	Idle
		Modulation	Multimode
		DownStream Data Rate (kbps)	0
		UpStream Data Rate (kbps)	0



	Procedure 3.3. Cre	ating a Dial-up Connection (Continued)
2.	Press <ctrl 1=""></ctrl> to view Configuration tab.	w the additional tab options (as shown below), then select the
	DSL Status System Configuration Modulat VPI: Encapsu ATM Mo	Fujitsu ADSL USB Modem m Info Configuration ATM ADSL Advanced FUUITSU ion Multimode • </th
3.	Verify that the Configura change these unless instru Configuration Modulation VPI VCI Encapsulation Mode ATM Mode	 tion tab shows the VPI/VCI default values below. Do not ucted by your service provider. Default Value Multimode 0 38 RFC-2364 Vc multiplexed PPP PPP over ATM
4.	Click Apply and exit the	Modem Setup window.
5.	Connect your modem as	shown in Procedure 3-4.



Connecting to a Remote Network

Follow Procedure 3-4 to set up your Macintosh to connect to a remote network using the USB modem:

1	TCP/IP (network)
Connect via:	PPP t
Configure:	Using FPP Server 😜 🦒
IP Address:	< will be supplied by server >
Subnet mask:	<pre>< will be supplied by server ></pre>
Router address:	<pre>will be supplied by server ></pre>
Name server addr. 1	Search domains :
Name server addr.:	

3. Close this window and Save.



	Procedure 3-4: Connecting to a Remote Network (Continued)
4.	From "Control Panel", open the "Modem" folder and select <i>Fujitsu ADSL USB Modem</i> from the Connect via: drop-down menu.
	Modem E
	Connect via: ADSL Modem
	- Setup
	Modem : ADSL USB Modem ≑
	Sound: 💿 On 🥥 Off
	Dialing: 💿 Tone 🥥 Pulse
	🗹 Ignore dial tone
5.	In the "Setup" section, select <i>Fujitsu ADSL USB Modem</i> from the drop-down under Modem .
6.	Select the Ignore dial tone check box.
7.	Close this window and Save.



Establishing a PPP Connection

Follow Procedure 3-5 to establish a PPP connection.

	Procedure 3-5: Establishing a PPP Connection
1.	From your desktop, click the Apple menu icon , select the Control Panels folder. Open the Remote Access folder and enter the appropriate name and password given to you by your service provider.
	Remote Access (network)
	∀ Setup
	Registered User Q Guest
	Naraet
	Save password Use DialAssist
	Number :
2.	The Number field is ignored but to continue with the connection a value must be entered (e.g. 1111).
3.	Before connecting, click Options button to verify your protocol setup. The
-	"Options" window opens.
4.	On the "Protocol" tab, make sure the Use protocol: drop-down box is set to <i>PPP</i> .
5	On the "Remote Access" window aligh Connect to start the connection process.
э. 6	Start your web browser to verify the connection
υ.	Start your web browser to verify the connection.



Installation and Software Setup for an Apple Macintosh Computer

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CHAPTER 4 Managing the Software

This chapter describes how to:

- Remove software from a PC or Macintosh, see "Uninstalling the Software" on page 4-2.
- Customise setting, see "Customising Communications Settings" on page 4-8.
- Use the control panel, see "Control Panel Applications" on page 4-8.
- *"Modifying the TCP/IP Options for Wide Area Networks"* on page 4-17.
- *"Point-to-Point Protocol over Ethernet"* on page 4-29.

List of Procedures

Table 4-1:

Procedure number	Title	Page
4-1	PCs Uninstall the Software	4-2
4-2	Macintosh Uninstall the Software	4-5
4-3	Customising Communications Settings	4-8
4-4	PC Control Panel Applications	4-10
4-5	Macintosh Control Panel Applications	4-12
4-6	Set the TCP/IP for Windows 98	4-17
4-7	Set the TCP/IP for Windows 2000	4-20
4-9	Set the TCP/IP for Windows ME	4-26



Managing the Software

Uninstalling the Software

Follow the procedures in this section to remove (uninstall) modem software from a PC or Macintosh.

Uninstalling for PCs Running Windows

Note: The USB cable should not be unplugged until after the uninstall process has been completed. For Windows 98 applications, the cable must be unplugged immediately following Step 6.

Follow Procedure 4-1 to uninstall modem software from a PC.





Managing the Software

	Procedure 4-1: PCs Uninstall the Software (Continued)
3.	A message is displayed asking you to confirm the removal of the USB ADSL modem software, click Yes .
	Ase you pure you want to remove the software?
4.	The "Information " window is displayed reminding you not to unplug the USB cable until the uninstall process has been completed. Click OK .
	Please don't unplug the USB cable until after the Install Wissed has finished.
_	
5.	A message is displayed indicating the software is being removed.
6.	For Windows 98 remove the USB cable now.







Uninstalling for Macintosh

Note: Note: The Fujitsu USB driver and its components must be completely removed from the operating system before attempting to reinstall the software.

Follow Procedure 4-2 to uninstall modem software from a Macintosh.

	Procedure 4-2: Macintosh Uninstall the Software			
1.	Verify that the modem is NOT connected to the computer.			
2.	Insert the Fujitsu USB Installation CD-ROM into the CD-ROM drive. The program will start automatically and display the Fujitsu Install Disk screen. Click the Fujitsu ADSL Installer icon.			
	-Fujitsu mes			
	Fujitsu ADSL Installer			
	DSL Modern Instell Disk			
	FUNTEDWIN			



	Procedure 4-2: Macintosh Uninstall the Software (Continued)		
σ.	FUJUTSU		
4.	The following screen appears. Fujitsu ADSL Installer Dat Install/Remove Software		
	Installation Type: Customized Removal		
_	Go Back Start		

6. Click the **Start** button to begin the uninstalling process.

Managing	the	Software
----------	-----	----------

	Procedure 4-2: Macintosh Uninstall the Software (Continued)		
7.	The following screen appears:		
	Select Fujitsu ADSL Installer features to remove.		
	Selection: Custom 🗢		
	Feature Size		
	Fujitsu USB-ADSL Modern Software 1,041K 🗈		
8	Selected size: 1,041K Cancel OK Choose Custom from the selection list and select the check box to the left of the		
0.	modem name within the main window.		
9.	Click on OK to continue.		
10.	The following screen appears.		
	The installation process has finished.		
	Click Quit to leave this program.		
	Click Continue to install other software.		
	Continue Quit		
11.	Click Quit . The removal process is complete.		



Control Panel Applications

The ADSL USB Modem control panel program provides a quick and easy way to configure and check the performance of the modem and the ADSL connection. When open, the monitor window updates the performance every 2 seconds.

Note: The control panel screen shots in this manual may vary from those displayed on your computer.

Customising Communications Settings

Once the ADSL USB Modem and software have been installed, the communication settings may be easily updated by following Procedure 4-3.

1.	From your PC desktop click Start -> Programs -> ADSL Modem -> Configure . A notification message appears indicating that the setup process has begun.					
	DSL Modem Installer	Update	FUJITSU Install a newer version of the software			
		Remove	Remove software from computer			
		Settings	Customize communication settings			
		Support	Customer Support Information			
			Exit			
Procedure 4-3: Custo	mising Communications Settings (Continued)					
---	---					
3. The "Communication the VPI, VCI, Encapsu	Settings'' window is displayed. Make the necessary changes to alation type and/or Modulation type and click Apply .					
Communication Settings						
	Enter your communication settings below. These settings are supplied by your service provider. VPI: 0 VCI: 38 Encapsulation: RFC 2364 PPPoATM NULL Encapsulation Image: Compare the second seco					
	I▲ Miro-Modulation					
	< Back Next > Cancel					
4. The "Setup Complete process. Select the Yes, from their drives, and o	" window indicates successful completion of the customisation , <i>I want to restart my computer now</i> option, remove any disks click Finish . Your PC restarts.					
Setup Complete						
	The Setup Wizard requires the computer to be restarted. Would you like to restart the computer now?					
	Yes, I want to restart my computer now. No, I will restart my computer later.					
22	Remove any disks from their drives, and then click Finish to complete setup.					
InstallShield	< gask Finish					





Control Panel Applications for PCs

Follow Procedure 4-4 for PC Control Panel Applications.

	Procedure 4-4: PC Control Panel Applications
1.	There are two methods to access the ADSL USB Modem control panel:
	 From the "Control Panel" window (Start -> Settings -> Control Panel), double click the ADSL USB Modem icon, or From the PC desktop, double click the ADSL USB Modem icon in the system tray.
	Note: To access the ADSL USB Modem Control Panel, the driver must be running. Also, make sure the USB cable is plugged into the modem.
2.	The "Physical Link" tab of the "ADSL USB Modem" window (Control Panel) allows you to review the current state of the ADSL USB Modem and connection. The green indicator in the Link Status field signifies that a connection has been made. This indicator flashes while a connection is being established. Individual flashing yellow indicators show the Transmitting and Receiving data activity separately.
	ADSL USB Modem
	Physical Levit System Info Configuration State DATA Modulation T1,413
	Data Pale (kbpc) Feceive 540 5144
	Levik Statue Statuenitieng Bioceriving O
	Accelerated by GlobelSpan
	DK Cancel Artic

	Procedure 4-4: PC Control Panel Applications (Continued)
3.	The "System Info" tab displays the release number of the ADSL USB Modem driver, the firmware release number, and the control panel version that you are currently using.
	MOSL US9 Modern Y S Physical Link System Infla Configuration Daver Release Ferrovare Release Control Parod Version TOUCOUL (Lond)
4.	The "Configuration" tab offers driver appropriate Modulation, Encapsulation, and VPI and VCI values. If you are using a WAN or ATM driver, only the Modulation type is displayed and may be modified. LAN driver applications are able to view and modify the Modulation type. Encapsulation type, and VPI and VCI values.
	ADSL USB Mudow Pres
	RFC - 1483 Encapsulation VPI D VCI
	DK. Cancel





Control Panel Applications for Macintosh

For Macintosh operating systems, the Fujitsu ADSL Setup program provides an easy way to view modem performance and ADSL connection status for technical support personnel (see Procedure 4-5). To access the control panel, an ADSL connection must be established with your service provider.

Note: These screens provide reference information is used for troubleshooting and advanced service provider information. Unless otherwise specified by your service provider, do not alter the values in these control panels. Changes to this information could disrupt your service.

	Proced	ure 4-5: Macintosh Control	Panel Applications
1.	From your d scroll down	esktop, click the Apple menu icon and open the Fujitsu ADSL Setup t	, select the Control Panels folder, folder.
		Fujitsu ADSL USB	Modem 📃 🗄
	DSL	Status System Info	
			FUJITSU
		_ DSL Status	
		Operational State	Idle
		Modulation	Multimode
		DownStream Data Rate (kbps)	0
		UpStream Data Rate (kbps)	0



2. Pr D S	ess <ctrl 1=""></ctrl> to view the additional tab SL Status tab.	o options (as shown below), then select
N	ote: If synchronization takes too long,	click Disconnect, then click Retrain.
	Fujitsu ADSL USB	Modem
	Status System Info Configurat	ion ATM ADSL Advanced
		FUĴĨTSU
	DSL Status	
	Operational State	Idle
	Modulation	Multimode
	DownStream Data Rate (kbps)	0
	UpStream Data Rate (kbps)	0
	Retrain	Disconnect



3.	The DSL operational state can be verified on the DSL Status tab.	
	Note: If synchronization takes too long, click Disconnect, then click Retra	ain
	Fujitsu ADSL USB Modem	
	DSL Status System Info Configuration ATM ADSL Advanced	
	FUĬĬTSU	
	Operational State Idle	
	Modulation Multimode	
	UpStream Data Rate (kbps) 0	
	Retrain Disconnect	
	Retrain Disconnect	
	Retrain Disconnect	
4.	Retrain Disconnect Additional diagnostic information is available on the "Configuration", "Systematical and "DSL Advanced to be"	em
4.	Retrain Disconnect Additional diagnostic information is available on the "Configuration", "System Info", "ATM" and "DSL Advanced tabs". a) The "Configuration" tab	em
4.	Retrain Disconnect Additional diagnostic information is available on the "Configuration", "System Info", "ATM" and "DSL Advanced tabs". a) The "Configuration" tab	em
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Fujitsu ADSL US	3 Modem	E
DSL Status System Info Configura	tion ATM ADSL Advance	be
	FUĴĨTS	SU
System Info		1
Device Driver Release: Firmware Release: Control Panel Release:	Unknown Unknown 1.1.0	
) The "ATM" tab		
🗌 🔤 Fujitsu ADSL US	3 Modem	E
DSL Status System Info Configura	tion ATM ADSL Advance	be
ATM Statistics		
ATM Statistics	0	
ATM Statistics Number of cells transmitted: Number of cells received:	0 0	
ATM Statistics Number of cells transmitted: Number of cells received: Number of cells dropped:	0 0 0	
ATM Statistics Number of cells transmitted: Number of cells received: Number of cells dropped: Number of cells w/bad header:	0 0 0 0	
ATM Statistics Number of cells transmitted: Number of cells received: Number of cells dropped: Number of cells w/bad header: Number of cells w/invalid Ypi/Yci:	0 0 0 0	
ATM Statistics Number of cells transmitted: Number of cells received: Number of cells dropped: Number of cells w/bad header: Number of cells w/invalid Vpi/Vci: Number of packets sent:	0 0 0 0 0	
ATM Statistics Number of cells transmitted: Number of cells received: Number of cells dropped: Number of cells w/bad header: Number of cells w/invalid Vpi/Yci: Number of packets sent: Number of packets received:	0 0 0 0 0 0	
ATM Statistics Number of cells transmitted: Number of cells received: Number of cells dropped: Number of cells w/bad header: Number of cells w/invalid Vpi/Vci: Number of packets sent: Number of packets received: Number of AAL5 PDU CRC errors:	0 0 0 0 0 0 0	
ATM Statistics Number of cells transmitted: Number of cells received: Number of cells dropped: Number of cells w/invalid Vpi/Vci: Number of packets sent: Number of packets received: Number of AALS PDU CRC errors: Number of OAM Loopback cells receive	0 0 0 0 0 0 0 1: 0	



Procedure	4-5: Macintosh Cor	ntrol Par	nel Applicati	ions (Continued)
a) Th	e "DSL Advanced" tab			
	Fujitsu ADSL	USB Modem		
DSL S	tatus 🗸 System Info 🗸 Config	uration $\sqrt{A1}$	M ADSL Advanc	ed
	Local/Remote Attenuation:	0		
	Local SNR Margin:	0		
		Local	Remote	
	FEC-Interleaved:	0	0	
	FEC-Fast:	0	0	
	CRC-Interleaved:	0	0	
	CRC-Fast:	0	0	



Modifying the TCP/IP Options for Wide Area Networks

Follow the procedures in this section to modify the TCP/IP options for Wide Area Networks (WAN) for the Windows operating systems (98, 2000, ME & XP).

Windows 98 and Windows 98 Second Edition

TCP/IP settings are automatically set up during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

	Procedure 4-6: Set the TCP/IP for Windows 98
1.	From your PC desktop, double click the My Computer icon.
2.	From the "My Computer" window, double click the Dial-Up Networking icon.
3.	From the "Dial-Up Networking" window, right click on the Dial-Up PPP Connecti icon and click Properties .
	Daddy Adverting Fiddle In In Se Do Symme Constant (10
	Sait In Case Cal Ca Cay Rate Und Date Nove
	Addient (R Dually Networking
	Edgemen (Paye 2 a Hut Deservane Sites
	Dial-Up Networking
	AD46, Dial-Up PPP Laurenchian
	Photo # or Heat
	Derive namet Diskenstyld-sinet
	To solublish a chain, p connection to the network new, slad Connect
	21 Spens the pagenty sheet at adjudgement



Procedure 4-6: Set the TCP/IP for W	/indows 98 (Continued)
4. From the "Server Types" tab of the "Dial-Up <i>TCP/IP</i> (marked with a check in the box to the	PPP Connection " window, select left) and click TCP/IP Settings .
ADSL Dial-Up PPP Connection	? ×
General Server Types Scripting Multilink	
Type of DiaRUp ≦erver: PPP: Internet, Windows NT Server, Windows 98 Advanced options: □ Log on to network □ Enable software gampression □ Require gnotypted password	
Require data encryption	
Ecord a log his for this connection	
Allowed network protocols:	
OK. Cano	et

TCP/IP Setting:
C Server assigned IP address
(* Specify an IP address
IP address: 192.168.0.77
C Server animations and a stress
Specify name server addresses
Primary DNS: 168 . 95 . 1 . 1
Secondary DNS: 0 0 0 0
Primary WINS:
Secondary WINS: 0,0,0,0
E Ulas IR handu assessation
Lise default nateway on remote network
UK Cancel

Click OK.

6. The "**ADSL Dial-Up PPP Connection**" window is redisplayed. Click **OK** to end the modifying TCP/IP options session.



Windows 2000

TCP/IP settings are automatically set up during the software installation process. Follow Procedure 4-7 to change TCP/IP settings.

	Procedure 4-7: Set the TCP/IP for Windows 2000
1.	From your PC desktop, right click the My Network Places icon and select Properties.
2	From the "Networking" tab of the "ADSL Dial-Un PPP Connection Properties"
	window, select Internet Protocol (TCP/IP) and click Properties.
	ADSL Dial-Up PPP Connection Properties
	General Options Security Networking Shaing
	Type of dial-up server 1 are calling
	PPP. Windows 55/98/NT4/2000, Internet
	Settings Components checked are used by this connection The Net BLUI Protocol The and Planes Sharing for Microsoft Networks The and Planes Sharing for Microsoft Networks Initial Initial Initial Properties



	The "Internet Protocol (TCP/IP) Properties"	window is used to modify the Il	Р
	address and DNS Server addresses:		
		91 ¥1	
	General		
	You can get IP settings amigned automatically if your network supports this supplicity. Otherwise, you need to ask, your network administratus for the appropriate IP settings.	s	
	C Otrais as P address automatically		
	· · · Uge the following IP address		
	Paddeess 192 168 0 77	-	
	C Dise D'ST anne addres advancede		
	IF Use the following DNS server addresses		
	Enterned DNS server 168 .95 . 1 . 1		
	Alternate DNS cerver	-	
	1.000	and the second s	
	C Adve	frond .	
		Caricel	
		Caricel	
	Change the IP address to a user defined address	ress by selecting Use the follow	ving
	Change the IP address to a user defined address (click inside the circle to the left of it)	ress by selecting Use the follow t) and typing the address in the s	ving spa
	 Change the IP address to a user defined address (click inside the circle to the left of it provided 	ress by selecting Use the follow t) and typing the address in the s	vinę spa
	 Change the IP address to a user defined address (click inside the circle to the left of it provided Change the DNS Server addresses to user de 	ress by selecting Use the follow t) and typing the address in the set offined addresses by selecting Us	ving spa se t
	 Change the IP address to a user defined address (click inside the circle to the left of it provided Change the DNS Server addresses to user de following DNS server addresses (click inside) 	ress by selecting Use the follow t) and typing the address in the selecting Us de the circle to the left of it) and	ving spa se t
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	 Change the IP address to a user defined address (click inside the circle to the left of it provided Change the DNS Server addresses to user der following DNS server addresses (click inside the addresses in the spaces provided Note: The "Advanced" button of the "Internet window may be used to alter DNS addresses, " 	ress by selecting Use the follow t) and typing the address in the set fined addresses by selecting Us de the circle to the left of it) and et Protocol (TCP/IP) Propertie WINS addresses and IP secur	ving spa se t l ty es"
	 Change the IP address to a user defined address address (click inside the circle to the left of it provided Change the DNS Server addresses to user de following DNS server addresses (click inside the addresses in the spaces provided Note: The "Advanced" button of the "Internet window may be used to alter DNS addresses, settings 	ress by selecting Use the follow t) and typing the address in the set offined addresses by selecting Us de the circle to the left of it) and et Protocol (TCP/IP) Propertion WINS addresses and IP secur	ving spa se t l ty] es" rity
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	 Change the IP address to a user defined address address (click inside the circle to the left of it provided Change the DNS Server addresses to user de following DNS server addresses (click inside the addresses in the spaces provided Note: The "Advanced" button of the "Internet window may be used to alter DNS addresses, settings Click OK from the "Internet Protocol (TCP/IP) The "ADSL Dial-Up PPP Connection Properties" 	ress by selecting Use the follow t) and typing the address in the selecting Us de the circle to the left of it) and et Protocol (TCP/IP) Propertie WINS addresses and IP secur P) Properties " window. ties" window reappears. Click C	ving spa se tl l tyj es" rity





Windows XP

TCP/IP settings are automatically set up during the software installation process. Follow Procedure 4-8 to change TCP/IP settings.

Procedure 4 From your PC desktop Interface Connection	1-8: Set the TCP/IP f o go to Start -> Control F s.	for Windows XP Panel, then click on Network and
File Edit View Favorites Tools I Solar Solar So	Help rch 🎉 Folders 💷 +	
Control Panel Switch to Classic View Switch to Classic View Windows Update Help and Support Other Control Panel Options	Pick a category Image: Appearance and Themes Image: Appearance and Themes Image: Appearance and Internet Connections Image: Add or Remove Programs Image: Add or Remove Programs Image: Add or Speech, and Audio Devices Image: Add or Remove and Maintenance Image: Add or Remove and Maintenance	Printers and Other Hardware We van the second seco

In the next window click on Network Connections .
 Network and Internet Connections File Edk Wew Pavorkes Tools Help Back · O Search Point Folders Address Point Network and Internet Connections Search Prices and Other Hardware Price and Modem Options Pick a task Set up or change your Internet connection Caste a connection to the network at your workplace Teuchlashoptare
 Anne or Small Office Networking Internet Explorer Network Diagnostics Or pick a Control Panel icon Internet Options Network Connections
Double click with left mouse button on FUJITSU Dial-Up PPP Connection.



	Procedure 4-8: Set the TCP/IP for Windows XP
4.	Click on Properties within the "Connect Fujitsu Dial-Up PPP Connection" window.
	Connect FUJITSU Dial-Up PPP Connection
	User name: username
	Password:
	Save this user name and password for the following users:
	🔿 Me only
	 Anyone who uses this computer
	Dial Cancel Properties Help
5.	Select Internet Protocol (TCP/IP) and click Properties.



6.	The "Internet Protocol (TCP/IP) Properties" win address and DNS Server addresses:	ndow is used to modify the Il	Р
	Internet Protocol (1CP/IP) Properties	<u>rix</u>	
	Benetal	C. S.	
	You can get IP settings assigned autorsatically if your network supports this supplicity. Otherwise, you need to ask your retwork administration for the appropriate IP settings.		
	C Obtain an IP address automatically		
	(F Uge the following IP address		
	IP address 192 168 0 77		
	 Diper DNI nerve actions accordingly 		
	F Use the following DNS server addresses		
	Beferred DNS server 168 35. 1 1		
	Shemate DHS server		
	Adgance	et	
	Adganca OKCo	ancel	
	Change the IP address to a user defined address address (click inside the circle to the left of it) a provided	s by selecting Use the follow and typing the address in the s	'ing spac
	 Change the IP address to a user defined address address (click inside the circle to the left of it) a provided Change the DNS Server addresses to user defin following DNS server addresses (click inside the addresses in the spaces provided 	s by selecting Use the follow and typing the address in the s ned addresses by selecting Us the circle to the left of it) and	ing spac e th typ
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7.	 Change the IP address to a user defined address address (click inside the circle to the left of it) a provided Change the DNS Server addresses to user define following DNS server addresses (click inside the addresses in the spaces provided Note: The "Advanced" button of the "Internet H window may be used to alter DNS addresses, Wissettings Click OK from the "Internet Protocol (TCP/IP) F 	s by selecting Use the follow and typing the address in the s ned addresses by selecting Us the circle to the left of it) and Protocol (TCP/IP) Propertie TNS addresses and IP secur Properties" window.	ring space e th typ es" rity



Windows ME

TCP/IP settings are automatically set up during the software installation process. Follow Procedure 4-9 to change TCP/IP settings.

	Procedure 4	4-9: Set the	e TCP/IP for W	indows ME
1.	From your PC desktop, open the Dial-Up Networking window (Start -> Settings -> Dial-Up Networking).			
2.	From the "Dial-Up N Connection icon and	etworking" v click Propert	vindow, right click t ies .	on the ADSL Dial-Up PPP
	Die Daaf Alle Hachwenkung Die Edit ginne Figuration In La Die Constantion International Australia Die Transite Mercenteren	oli Correctoro Holo In Station State	a x D D W B	
	Abst Did Up PPP Connection DSUMetholized Prove # collect: 0.33	Engrand Male New Carriedo Electronity materia	Prime Device room Prime Device room Service of the service of th	
	E Opens the paperty direct of sciences	Lilenc	100 7	4



ADSL DiaHUp F	PP Connection	<u> 11 × 1</u>	
General Netw	stong Security Scripting Multim	Distra	
Type of DiaN	lp <u>S</u> erver.		
Press, Audatoria	wednesd 2000/WT Watching PE	-	
Advanced	planc		
Enabl	software porpressori		
1 Decis	a w signee oo maa convectaan		
- Allowed red	week protocole		
C users	UI Di Concettie		
₩ 1CPV	P TEE/IP Settings		



	Procedure 4-9: Set the TCP/IP for Windows ME (Continued)
4.	The "TCP/IP Settings" window is used to modify the IP address, Domain Name Server addresses and/or default gateway as follows:
	 Change the IP address to a user defined address by selecting Specify an IP address (click inside the circle to the left of it) and typing the addresses by selecting Specify name server addresses to user defined addresses to user user defined addresses to user user defined addresses to user defi
	gateway on remote network
5.	The " Dial-Up PPP Connection" window is redisplayed. Click OK to end the modifying TCP/IP options session.



Point-to-Point Protocol over Ethernet

PPPoE is a specification for connecting multiple computer users on an Ethernet to a remote site through common customer premises equipment. PPPoE can be used to have an office or building-full of users share a common DSL (Digital Subscriber Line) connection to the Internet. PPPoE combines the Point-to-Point Protocol commonly used in dialup connections, with the Ethernet protocol, which supports multiple users in a LAN. The PPP Protocol information is encapsulated within an Ethernet frame.

The ADSL USB Modem supports PPPoE by using the driver in conjunction with third party Ethernet software. The installation procedure follows:

- 1. Install the ADSL USB Modem as a LAN (RFC1483) driver by following the procedure for your operating system shown in "*Installation and Software Setup for PCs Running Windows*" on page 2-1 or "*Installation and Software Setup for an Apple Macintosh Computer*" on page 3-1.
- 2. Install the PPPoE software by following the steps detailed in the third party software supplier's User Guide. The third party software will search for existing drivers. If multiple drivers are installed, select the ADSL USB Modem as the adapter of choice.
- 3. The Internet connection is made through the third party software. You are required to enter your User Name and Password.



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Product Specifications

APPENDIX A Product Specifications

This appendix contains the product specification setting out the limits and expectations for the performance of the ADSL USB Modem.

ADSL Standards Supported

There are several standard types of ADSL modulation techniques including Discrete MultiTone (DMT) and Carrierless Amplitude and Phase (CAP). The ADSL USB DSL Modem is capable of supporting the following DSL standards: ANSI T1.413 Issue 2, ITU G.992.1 (G.DMT), ITU G.992.2 (G.lite), CAP (T1 TR-59), and ITU G.992 Annexes A, B, and C as applicable.

Power Requirements

The modem takes power from the computer. The power consumption is shown in Table A-1.

ADSL USB Modem Power Consumption		
Power Supply	Data Mode	
+5V Digital	0.100 W	
+5V Analog	0.250 W	
+3.3V	0.995 W	
+12V	0.896 W	
Total:	2.241 W	

Table A-1:



Product Specification

The main technical features of the modem are shown in Table A-2.

Item	Description
Dimensions	Height: 1.6 in (4.06 cm), Width: 7.5 in (19.05 cm), Depth: 6.25 in (15.88 cm)
Weight	Approx. 2.20 lbs (1.02 kg)
Environmental	Ambient Operating Temperature – +32 to +131°F (0 to +45°C
	Relative Humidity – 5 to 95%, non-condensing
Power Requirements	5 VDC Source from PC USB port, Less than 3 watts typical from 5 VDC
Connectors	ADSL LINE – 6-pin modular jack RJ-11
	USB – USB Connector
DSL	ADSL Line Code – Discrete MultiTone (DMT)
ADSL Transmission Rates	Downstream DMT: 32 kbps to 8.0 Mbps
	Upstream DMT: 32 kbps to 800 Kbps
Transport and Application Protocol Support	RFC 1483 Bridge Protocol
ATM Support	Supports ATM traffic shaping where soft SAR supports individual PCR control for each VC
	Full 16-bit address range for both VPI and VCI supported.
	Supports PVC connections.
Device Driver and Software Specifications	Driver is LAN type network driver and is Network Driver Interface Specification (NDIS) 4.0 compliant.
	Windows TM 98, Windows TM 98 Second Edition, Windows TM 2000, Windows XP TM
EMC	FCC, Part 15, Class B; EN50081-1, Class B; EN50082-1

Table A-2:



Table A-2:

Item	Description
Safety	UL 1950, cUL, EN60950
Regulatory Approval	UL, CSA, CE



Product Specifications

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Glossary

The following terms are used in this manual.

Asymmetric Digital Subscriber Line
Asynchronous Transfer Mode
-
Carrier-less Amplitude and Phase
Discrete Multi-tone
Digital Subscriber Line
Digital Subscriber Line Access Multiplexer
ITU G.992.1
ITU G.992.2
Internet Protocol
Local Area Network
Personal Computer
Point-to-Point Protocol
Point-to-Point Protocol over Ethernet
Permanent Virtual Circuit
-
Specification Standard.
Switched Virtual Circuit
Transport Control Protocol
Universal Serial Bus
ATM Virtual Circuit ID
ATM Virtual Path ID
Wide Area Network



Glossary

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